

AMENDMENTS TO THE CLAIMS

Please amend the claims as shown below:

1. (Currently amended) A water dispersible fibrous fabric comprising:
- a fibrous substrate, wherein less than about 20% of the fibers comprising the fibrous substrate have a length of about 6-10 mm; and
- a ~~water-soluble~~ water-dispersible binder; wherein said binder is an ion-sensitive composition comprising a sulfonate anion modified ~~acrylic acid-terpolymer polymer~~ and a non-crosslinking poly(ethylene-vinyl/acetate), wherein the composition is insoluble in a neutral salt solution containing at least about 0.3 weight percent salt, said salt comprising one or more monovalent ions;
- wherein said binder comprises less than about 25% by weight of said fibrous fabric and said fibrous substrate comprising more than about 75% by weight of said fibrous fabric; and
- wherein the fabric is dispersible in an aqueous environment containing up to about 200 ppm of one or more divalent and/or multivalent ions.
2. (Currently amended) The water dispersible fibrous fabric of Claim 1, wherein said binder comprises from about 10-15% by weight of said fibrous fabric and said fibrous substrate ~~comprising~~ comprises from about 85-90% by weight of said fibrous fabric.
3. (Original) The water dispersible fibrous fabric of Claim 1, wherein said fibers have a length of about 7-9 mm.
4. (Currently amended) The water dispersible fibrous fabric of Claim 1, wherein said fibers have a length of about 8mm.

5. (Original) The water dispersible fibrous fabric of Claim 1, wherein said binder comprises from about 5% by weight to about 25% by weight of said fabric.

6. (Original) The water dispersible fibrous fabric of Claim 1, wherein said binder comprises from about 10% by weight to about 20% by weight of said fabric.

7. (Currently amended) The ~~ion-sensitive composition~~ water dispersible fibrous fabric of Claim 1, wherein the ~~composition~~ binder is ~~soluble~~ dispersible in water containing from about 15 ppm to about 150 ppm of one or more divalent and/or multivalent ions.

8. (Currently amended) The ~~ion-sensitive composition~~ water dispersible fibrous fabric of Claim 1, wherein the ~~composition~~ binder is insoluble in a neutral salt solution containing from about 0.3 weight percent to about 5 weight percent salt.

9. (Currently amended) The ~~ion-sensitive composition~~ water dispersible fibrous fabric of Claim 1, wherein the ~~polymer~~ binder is insoluble in a neutral salt solution containing from about 1 weight percent to about 4 weight percent salt.

10. (Currently amended) The ~~ion-sensitive composition~~ water dispersible fibrous fabric of Claim 1, wherein the divalent and/or multivalent ions comprise Ca^{2+} ions, Mg^{2+} ions, Zn^{2+} ions, or a combination thereof.

11. (Currently amended) The ~~ion-sensitive composition~~ water dispersible fibrous fabric of Claim 1, wherein the monovalent ions comprise Na^+ ions, Li^+ ions, K^+ ions, NH_4^+ ions, or a combination thereof.

12. (Currently amended) The ~~ion-sensitive composition~~ water dispersible fibrous fabric of Claim 1, wherein the ~~acrylic acid terpolymer~~ sulfonate anion modified

polymer comprises at least one of acrylic acid and or methacrylic acid, and one or more alkyl acrylates.

13. (Currently amended) The ~~ion-sensitive composition~~ water dispersible fibrous fabric of Claim 1, wherein the sulfonate anion modified ~~acrylic acid terpolymer~~ polymer is formed from at least four monomers selected from acrylic acid; 2-acrylamido-2-methyl-1-propanesulfonic acid and the alkali earth metal and or organic amine salts thereof; butyl acrylate; and 2-ethylhexyl acrylate.

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14. (Currently amended) The ~~ion-sensitive composition~~ water dispersible fibrous fabric of Claim 1, wherein the sulfonate anion modified ~~acrylic acid terpolymer~~ polymer is formed from at least four monomers selected from acrylic acid; AMPS; NaAMPS; butyl acrylate; and 2-ethylhexyl acrylate.

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15. (Currently amended) The ~~ion-sensitive composition~~ water dispersible fibrous fabric of Claim 1, wherein the sulfonate anion modified ~~acrylic acid terpolymer~~ polymer comprises from about 35 to less than about 80 mole percent acrylic acid; from greater than 0 to about 20 mole percent 2-acrylamido-2-methyl-1-propanesulfonic acid and alkali earth metal and or organic amine salts thereof; from greater than 0 to about 65 mole percent butyl acrylate; and from greater than 0 to about 45 mole percent 2-ethylhexyl acrylate.

16. (Currently amended) The ~~ion-sensitive composition~~ water dispersible fibrous fabric of Claim 1, wherein the sulfonate anion modified ~~acrylic acid terpolymer~~ polymer comprises from about 50 to less than about 67 mole percent acrylic acid; from greater than 0 to about 10 mole percent 2-acrylamido-2-methyl-1-propanesulfonic acid and

alkali earth metal ~~and~~ or organic amine salts thereof; from about 15 to about 28 mole percent butyl acrylate; and from about 7 to about 15 mole percent 2-ethylhexyl acrylate.

17. (Currently amended) The ~~ion-sensitive composition~~ water dispersible fibrous fabric of Claim 1, wherein the sulfonate anion modified ~~acrylic acid terpolymer~~ polymer comprises from about 57 to less than about 66 mole percent acrylic acid; from about 1 to about 6 mole percent 2-acrylamido-2-methyl-1-propanesulfonic acid and alkali earth metal ~~and~~ or organic amine salts thereof, from about 15 to about 28 mole percent butyl acrylate; and from about 7 to about 13 mole percent 2-ethylhexyl acrylate.

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20. (Currently amended) The ~~ion-sensitive composition~~ water dispersible fibrous fabric of Claim 1, wherein the composition comprises from about 5 to about 45 weight percent of the non-crosslinking poly(ethylene-vinyl acetate).

21. (Currently amended) The ~~ion-sensitive composition~~ water dispersible fibrous fabric of Claim 1, wherein the composition comprises from about 20 to about 35 weight percent of the non-crosslinking poly(ethylene-vinyl acetate).

22. (Currently amended) The ~~ion-sensitive composition~~ water dispersible fibrous fabric of Claim 1, wherein the sulfonate anion modified ~~acrylic acid terpolymer~~

polymer comprises from about 57 to less than about 66 mole percent acrylic acid; from about 1 to about 6 mole percent AMPS or NaAMPS; from about 15 to about 28 mole percent butyl acrylate; and from about 7 to about 13 mole percent 2-ethylhexyl acrylate; and wherein the composition comprises from about 65 to about 80 weight percent of the sulfonate anion modified ~~acrylic acid terpolymer~~ polymer and from about 20 to about 35 weight percent of the non-crosslinking poly(ethylene-vinyl acetate).

23. (Currently amended) The water dispersible fibrous fabric of ~~claim~~ Claim 1, wherein said fibrous material is a nonwoven fabric.

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24. (Currently amended) The water dispersible fibrous fabric of ~~claim~~ Claim 1, wherein said fibrous material will disperse in water after no more than about 60 minutes.

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25. (Currently amended) The water dispersible fibrous fabric of ~~claim~~ Claim 1, wherein said fibrous material will disperse in water after no more than about 20 minutes.

26. (Currently amended) The water dispersible fibrous fabric of ~~claim~~ Claim 1, wherein said fibrous material will disperse in water after no more than about 10 minutes.

27. (Currently amended) The water dispersible fibrous fabric of ~~claim~~ Claim 1, wherein after up to about 60 minutes said fibrous material breaks up into multiple pieces each having an average size of less than about 50% relative to its pre-dispersed size.

28. (Currently amended) The water dispersible fibrous fabric of ~~claim~~ Claim 1, wherein after up to about 60 minutes said fibrous material breaks up into multiple pieces each having an average size of less than about 40% relative to its pre-dispersed size.

29. (Currently amended) The water dispersible fibrous fabric of ~~claim~~ Claim 1, wherein after up to about 60 minutes said fibrous material breaks up into multiple pieces each having an average size of less than about 30% relative to its pre-dispersed size.

30. (Currently amended) The water dispersible fibrous fabric of ~~claim~~ Claim 1, wherein said fabric is used in a disposable personal care product.

31. (Currently amended) The water dispersible fibrous fabric of ~~claim 1~~ Claim 30, wherein said personal care product is selected from a wipe, diaper, training pant, swimwear, absorbent underpant adult incontinence product, feminine hygiene product, absorbent pad, wound dressing and or bandage.

32. (Currently amended) A disposable absorbent article comprising a water dispersible fibrous fabric, wherein the fabric comprises:

a fibrous substrate, the fibrous substrate comprising less than about 20% fiber fraction of fibers having a length of about 6-10 mm in length; and

a ~~water-soluble~~ water-dispersible binder comprising a first polymer formed from at least four monomers selected from acrylic acid, 2-acrylamido-2-methyl-1-propanesulfonic acid and alkali earth metal and organic amine salts thereof, butyl acrylate, and 2-ethylhexyl acrylate; and a second polymer comprising a non-crosslinking poly(ethylene-vinyl acetate); wherein the composition is insoluble in a

neutral salt solution containing at least about 0.3 weight percent salt, said salt comprising one or more monovalent ions;

wherein said fabric is water dispersible in an aqueous environment containing up to about 200 ppm of one or more multivalent ions and a monovalent ion concentration of less than about 0.5% by weight.

33. (Original) The disposable absorbent article of Claim 32, wherein the fibrous substrate is comprised of pulp and synthetic fibers.

34. (Original) The disposable absorbent article of Claim 32, wherein the less than about 20% fiber fraction of fibers having a length of about 6-10 mm in length are synthetic fibers.

35. (Original) The disposable absorbent article of Claim 32, wherein at least about 80% of the fiber fraction of the fibrous substrate comprises pulp and less than about 20% of the fiber fraction of the fibrous substrate comprises synthetic fibers.

36. (Original) The disposable absorbent article of Claim 32, wherein about 85-95% of the fiber fraction of the fibrous substrate comprises pulp and about 5-15% of the fiber fraction of the fibrous substrate comprises synthetic fibers.

37. (Original) The disposable absorbent article of Claim 32, wherein about 3-17% of the fibers of the fibrous substrate have a fiber length of about 6-10 mm.

38. (Original) The disposable absorbent article of Claim 32, wherein about 5-15% of the fibers of the fibrous substrate have a fiber length of about 6-10 mm.

39. (Currently amended) The disposable absorbent article of Claim 32, wherein about 15% of the fibers of the fibrous substrate have a length of about 8 mm.

40. (Currently amended) The disposable absorbent article of Claim 39, wherein the fibers of the fibrous substrate having a length of about 8 mm are synthetic fibers.

41. (Currently amended) The disposable absorbent article of Claim 32, wherein said binder comprises less than about 20% by weight of said fibrous fabric and said fibrous substrate ~~comprising~~ comprises more than about 80% by weight of said fibrous fabric.

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44. (Currently amended) The disposable absorbent article of Claim 32, wherein the first polymer of the ~~water-soluble~~ water-dispersible binder comprises from about 35 to less than about 80 mole percent acrylic acid; from greater than 0 to about 20 mole percent 2-acrylamido-2-methyl-1-propanesulfonic acid and alkali earth metal ~~and~~ or organic amine salts thereof; from greater than 0 to about 65 mole percent butyl acrylate; and from greater than 0 to about 45 mole percent 2-ethylhexyl acrylate.

45. (Currently amended) The disposable absorbent article of Claim 32, wherein the first polymer of the ~~water-soluble~~ water-dispersible binder comprises from about

50 to less than about 67 mole percent acrylic acid; from greater than 0 to about 10 mole percent 2-acrylamido-2-methyl-1-propanesulfonic acid and alkali earth metal ~~and~~ or organic amine salts thereof; from about 15 to about 28 mole percent butyl acrylate; and from about 7 to about 15 mole percent 2-ethylhexyl acrylate.

46. (Currently amended) The disposable absorbent article of Claim 32, wherein the first polymer of the ~~water-soluble~~ water-dispersible binder comprises from about 57 to less than about 66 mole percent acrylic acid; from about 1 to about 6 mole percent 2-acrylamido-2-methyl-propanesulfonic acid and alkali earth metal ~~and~~ or organic amine salts thereof, from about 15 to about 28 mole percent butyl acrylate; and from about 7 to about 13 mole percent 2-ethylhexyl acrylate.

47. (Currently amended) The disposable absorbent article of Claim 32, wherein the first polymer of the ~~water-soluble~~ water-dispersible binder is present in an amount from about 55 to about 95 weight percent.

48. (Currently amended) The disposable absorbent article of Claim 32, wherein the first polymer of the ~~water-soluble~~ water-dispersible binder is present in an amount from about 65 to about 80 weight percent.

49. (Currently amended) The disposable absorbent article of Claim 32, wherein the second polymer of the ~~water-soluble~~ water-dispersible binder is present in an amount from about 5 to about 45 weight percent

50. (Currently amended) The disposable absorbent article of Claim 32, wherein the ~~water-soluble~~ water-dispersible binder comprises from about 20 to about 35 weight percent non-crosslinking poly(ethylene-vinyl acetate).

51. (Currently amended) The disposable absorbent article of Claim 32, wherein the first polymer of the ~~water-soluble~~ water-dispersible binder comprises from about 57 to less than about 66 mole percent acrylic acid; from about 1 to about 6 mole percent AMPS or NaAMPS; from about 15 to about 28 mole percent butyl acrylate; and from about 7 to about 13 mole percent 2-ethylhexyl acrylate; and wherein the composition comprises from about 65 to about 80 weight percent of the first polymer and from about 20 to about 35 weight percent of the second polymer.

52. (Currently amended) A wet wipe comprising:

a fibrous substrate, wherein less than about 20% of the fibers comprising the fibrous substrate have a length of about 6-10 mm; and

an ion-sensitive ~~water-soluble~~ water-dispersible binder comprising a sulfonate anion modified ~~acrylic acid terpolymer~~ polymer and a non-crosslinking poly(ethylene-vinyl acetate), wherein the composition is insoluble in a neutral salt solution containing at least about 0.3 weight percent salt, said salt comprising one or more monovalent ions;

wherein said binder comprises less than about 25% by weight of said fibrous fabric and said fibrous substrate comprising more than about 75% by weight of said fibrous fabric;

wherein the fabric is dispersible in an aqueous environment containing up to about 200 ppm of one or more divalent and/or multivalent ions; and

wherein after up to about 60 minutes said fibrous material breaks up into multiple pieces each having an average size of less than about 50% relative to its pre-dispersed size.

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